

FIG. 1

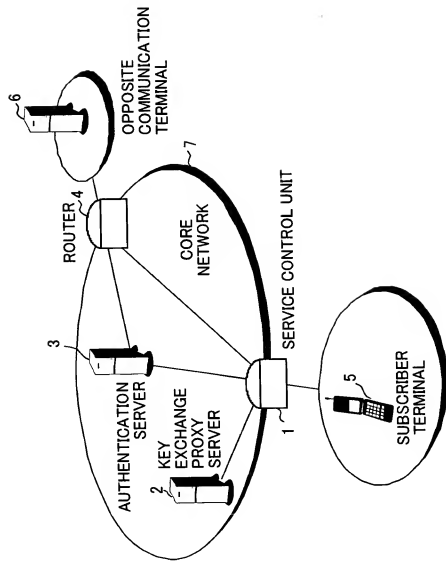


FIG. 2

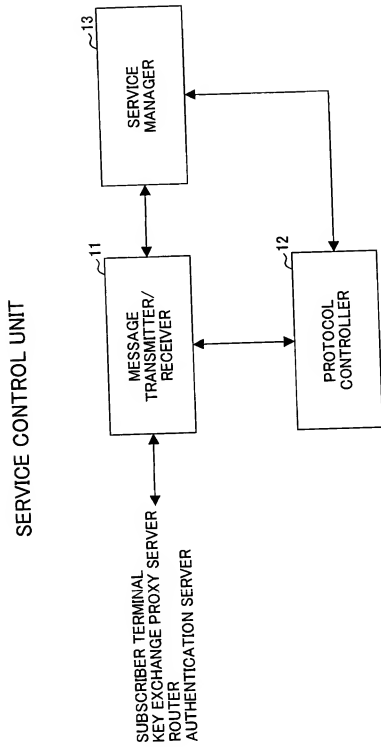


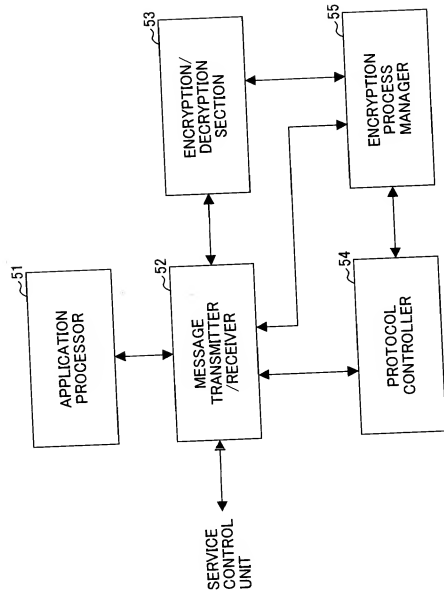
FIG. 3

SERVICE PROFILE

NAME	CONTENT
SUBSCRIBER IDENTIFICATION INFORMATION	TELEPHONE NUMBER
	NAI
	AUTHENTICATION ENTRY NUMBER
	.
IPSec APPLICATION CONDITION 1	IP ADDRESS
	PORT NUMBER
IPSec APPLICATION CONDITION 2	IP ADDRESS
	PORT NUMBER
.	.
.	.
.	.

FIG. 4

SUBSCRIBER TERMINAL



DATA RETAINED BY SUBSCRIBER TERMINAL

FIG. 5A

SPD

NAME	CONTENT
IPSec APPLICATION CONDITION 1	IP ADDRESS
	PORT NUMBER
IPSec APPLICATION CONDITION 2	IP ADDRESS
	PORT NUMBER
.	.
.	.
.	.

FIG. 5B

SAD

NAME	APPLICATION CONDITION	CONTENT
IPSec APPLICATION CONDITION 1	IP ADDRESS	ENCRYPTION PROTOCOL
		KEY
	PORT NUMBER	SPI
IPSec APPLICATION CONDITION 2	IP ADDRESS	ENCRYPTION PROTOCOL
		KEY
	PORT NUMBER	SPI
.	.	.
.	.	.
.	.	.

FIG. 6

KEY EXCHANGE PROXY SERVER

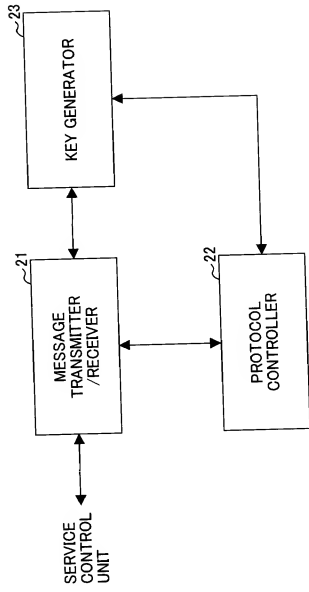


FIG. 7

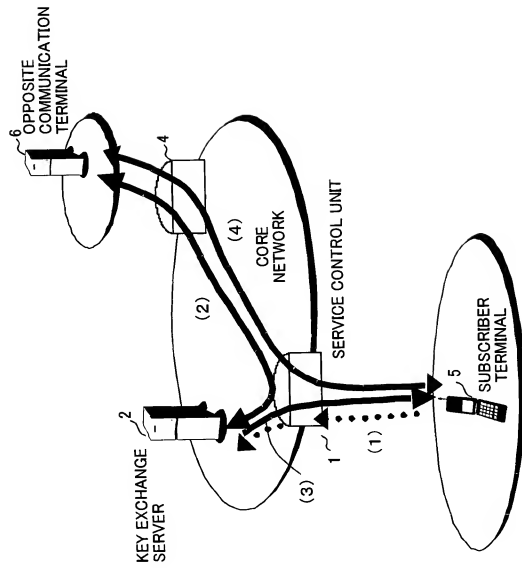


FIG. 8

SUBSCRIBER TERMINAL PROCESS SEQUENCE
(COMMUNICATION START)

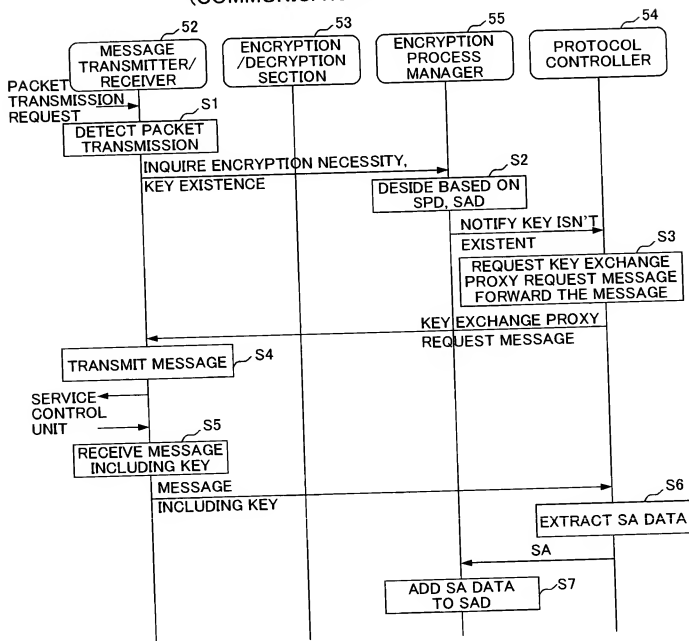


FIG. 9

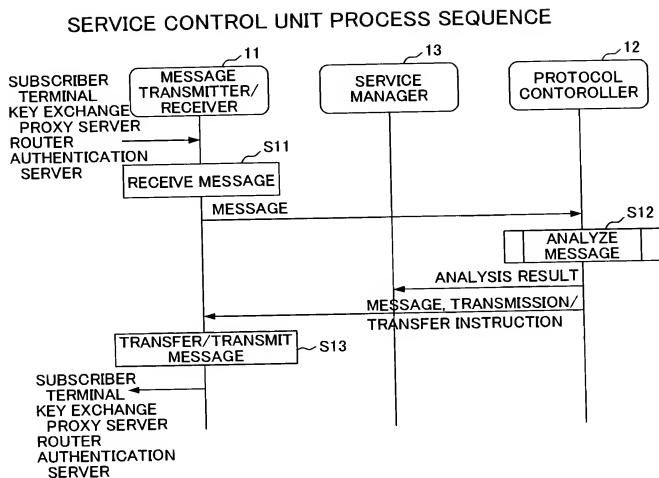


FIG. 10

FLOWCHART OF MESSAGE ANALYSIS PROCESSING OF
SERVICE CONTROL UNIT

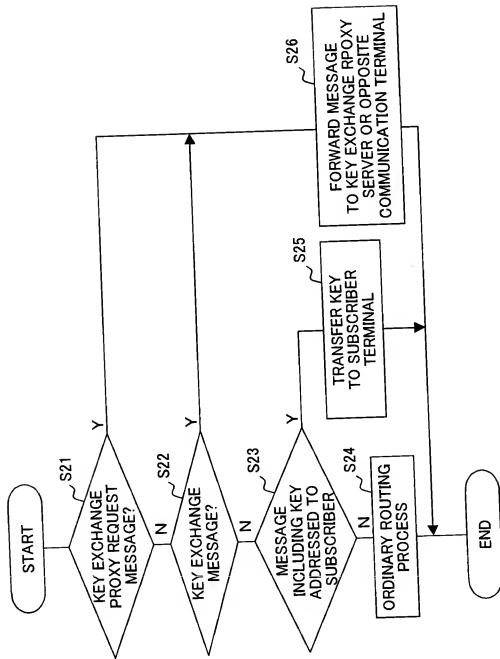


FIG. 11

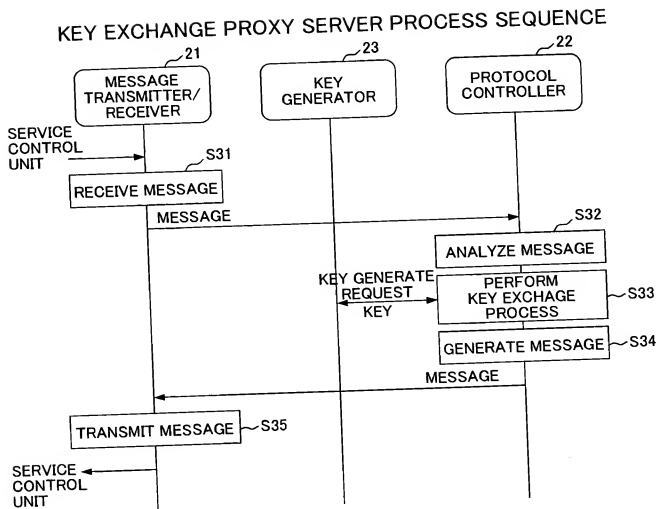


FIG. 12A

**KEY EXCHANGE MESSAGE
(KEY EXCHANGE PROXY REQUEST MESSAGE)**

(SUBSCRIBER TERMINAL → SERVICE CONTROL UNIT)

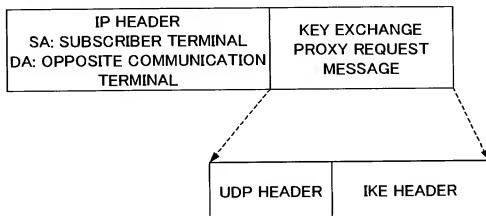


FIG. 12B

**KEY EXCHANGE MESSAGE
(KEY EXCHANGE PROXY REQUEST MESSAGE)**

(SERVICE CONTROL UNIT → KEY EXCHANGE PROXY SERVER)

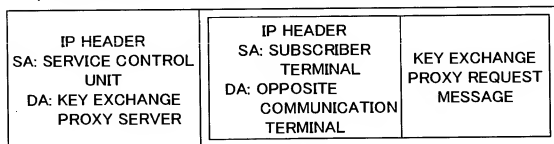


FIG. 13A

KEY EXCHANGE MESSAGE

(SERVICE CONTROL UNIT → OPPOSITE COMMUNICATION TERMINAL)

IKE MESSAGE SA: SUBSCRIBER TERMINAL DA: OPPOSITE COMMUNICATION TERMINAL

FIG. 13B

KEY EXCHANGE MESSAGE

(OPPOSITE COMMUNICATION TERMINAL → SERVICE CONTROL UNIT)

IKE MESSAGE SA: OPPOSITE COMMUNICATION TERMINAL DA: SUBSCRIBER TERMINAL

FIG. 13C

KEY EXCHANGE MESSAGE

(SERVICE CONTROL UNIT → KEY EXCHANGE PROXY SERVER)

IP HEADER SA: SERVICE CONTROL UNIT DA: KEY EXCHANGE PROXY SERVER	IKE MESSAGE SA: OPPOSITE COMMUNICATION TERMINAL DA: SUBSCRIBER TERMINAL
---	--

FIG. 13D

KEY EXCHANGE MESSAGE

(KEY EXCHANGE PROXY SERVER → SERVICE CONTROL UNIT)

IP HEADER SA: KEY EXCHANGE PROXY SERVER DA: SERVICE CONTROL UNIT	IKE MESSAGE SA: SUBSCRIBER TERMINAL DA: OPPOSITE COMMUNICATION TERMINAL
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FIG. 14A

KEY TRANSFER MESSAGE

(KEY EXCHANGE PROXY SERVER → SERVICE CONTROL UNIT)

IP HEADER SA: KEY EXCHANGE PROXY SERVER DA: SERVICE CONTROL UNIT	IP HEADER SA: OPPOSITE COMMUNICATION TERMINAL DA: SUBSCRIBER TERMINAL	KEY INFORMATION (SA)
--	--	----------------------------

FIG. 14B

KEY TRANSFER MESSAGE

(SERVICE CONTROL UNIT → SUBSCRIBER TERMINAL)

IP HEADER SA: SERVICE CONTROL UNIT DA: SUBSCRIBER TERMINAL	IP HEADER SA: OPPOSITE COMMUNICATION TERMINAL DA: SUBSCRIBER TERMINAL	KEY INFORMATION (SA)
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FIG. 15

SUBSCRIBER TERMINAL PROCESS SEQUENCE
(PACKET TRANSMISSION/RECEPTION)

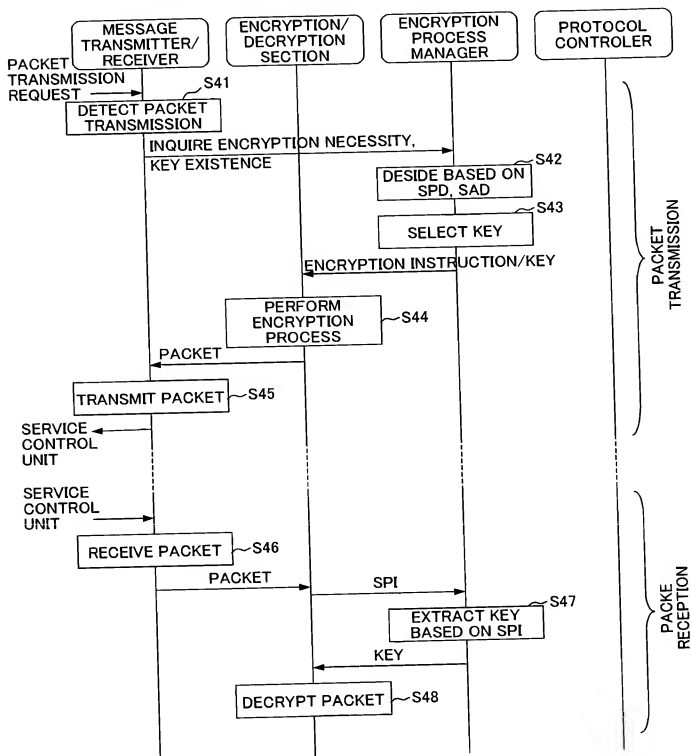


FIG. 16

